

Pressure Temperature Charts



°F	°C	R-290
-130	-90.0	-13.8
-120	-84.4	-13.3
-110	-78.9	-12.7
-100	-73.3	-11.8
-90	-67.8	-10.7
-80	-62.2	-9.2
-70	-56.7	-7.3
-60	-51.1	-5.0
-50	-45.6	-2.1
-40	-40	1.4
-30	-34.4	5.7
-20	-28.9	10.7
-10	-23.3	16.7
0	-17.8	23.7
10	-12.2	31.8
20	-6.7	41.1
30	-1.1	51.8
40	4.4	64.0

°F	°C	R-290
50	10	77.7
60	15.6	93.0
70	21.1	110.2
80	26.7	129.4
90	32.2	150.5
100	37.8	173.9
110	43.3	199.6
120	48.9	227.8
130	54.4	258.7
140	60	292.3
150	65.6	329.0
160	71.1	368.8

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant	Components	BP
R-290	R-290 (>99.5%) Propane	-43.8°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-290	lb./ft. ³	37.7	36.2	34.5	32.6	30.6	28.1
	lb./gal.	5.0	4.8	4.6	4.4	4.1	3.8

Physical Properties

	R-290
Environmental Classification	Hydrocarbon
Molecular Weight	44.11 g/mole
Boiling Point (1 atm, °F)	-43.8°F
Critical Pressure (psia)	616 psia
Critical Temperature (°F)	205.8°F
Critical Density (lb./ft. ³)	13.64 lb./ft. ³
Vapor Density (bp, lb./ft. ³)	0.1508 lb./ft. ³
Heat of Vaporization (bp, btu/lb.)	183.1 btu/lb.
Ozone Depletion Potential	0
Global Warming Potential (CO ₂ = 1.0)	5 *
ASHRAE Standard 34 Safety Rating	A3

*GWP numbers are updated periodically. Please refer to EPA or ASHRAE for the latest information.